

## Software Requirements Traceability Matrix (SRTM) Checklist

Date(s) of Assessment: \_\_\_\_\_ Project: \_\_\_\_\_

Assessor(s): \_\_\_\_\_ Document Version: \_\_\_\_\_

\_\_\_\_\_

		Y, N, NA	F, O	Comments
<b>DOCUMENT STANDARDS COMPLIANCE</b>				
1	Have standards/guidelines been identified to define the work product?			
2	Does the work product format conform to the specified standard/guideline (i.e., Template)?			
3	Has the project submitted any request for deviations or waivers to the defined work product?			
4	Have the following areas been addressed completely:			
4a	Approval authority?			
4b	Revision approval?			
4c	Revision control?			
<b>TECHNICAL REFERENCE</b>				
5	Is there evidence that the work product was reviewed by all stakeholders?			
6	Have acceptance criteria been established for the work product?			
<b>SOFTWARE REQUIREMENTS TRACEABILITY MATRIX CONTENTS - VERIFIABILITY</b>				
7	Has the initial Software Requirements Specification (SRS) document been approved?			
8	Is the approved SRS under configuration control (i.e., baselined)?			
9	Is the software requirements traceability Matrix (SRTM) part of the requirements management process?			
10	Is the SRTM under configuration control?			
<b>CURRENCY</b>				
11	Is there a process for reviewing and approving changes to the SRTM?			

Revision: 1.4

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Y=Yes, N=No, NA=Not Applicable, F=Finding, O=Observation

For more information, please visit the NASA GSFC Software Assurance Website, at <http://sw-assurance.gsfc.nasa.gov>.

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		Y, N, NA	F, O	Comments
12	Is a criteria used for identifying reviewers?			
13	Is the SRTM updated and maintained with the appropriate frequency?			
14	Does the SRTM reflect new/derived/updated requirements?			
<b>TRACEABILITY</b>				
15	Are all software requirements from the SRS included in the SRTM?			
16	Does the SRTM reflect bi-directional traceability?			
16a	Are software requirements mapped back to system requirements?			
16b	Can derived requirements (e.g., functional requirements) be traced back?			
16c	Are software requirements mapped to interface requirements/design?			
17	Are software requirements mapped to software design?			
18	Are software requirements mapped to coded modules?			
19	Are software requirements mapped to test cases?			
20	Does the SRTM contain test verification status? If not, does a corresponding software requirements verification traceability matrix (SRVTM) exist?			
21	Does the SRTM or SRVTM reflect the method of verification (i.e., test, demonstration, inspection, analysis)?			
22	Are the safety critical requirements uniquely identified?			
23	Are the security requirements uniquely identified?			
<b>FORMAT</b>				
25	Are unique identifiers used for requirements?			
26	If not numbered sequentially, is the numbering scheme traceable?			

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## Software Requirements Traceability Matrix (SRTM) Checklist

### **REFERENCE ITEMS/DOCUMENTS**

*NPR 7150.2 – Requirements [SWE-052], [SWE-059], [SWE-064], [SWE-072], [SWE-104], [SWE-109], [SWE-111], [SWE-112], & [SWE-114]*

*SEI CMMI Continuous VI.1 Requirements Management (REQM) SP 1.4-2, Maintain Bi-directional Traceability of Requirements*

